

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-26. (Canceled).

Claim 27 (Currently Amended): An information medium configured to have data recorded thereon by a recording apparatus and data reproduced therefrom by a reproducing apparatus, said data including management information used to access a stream object for at least one of recording and reproducing the data by at least one of the recording apparatus and the reproducing apparatus and bitstream information, said information medium comprising:

[[a]] the stream object, formed from the bitstream information, including at least one first data unit a plurality of MPEG transport packets, at least one ~~second~~ first data unit having ~~the at least one first data unit~~ transport packets, and at least one ~~third~~ second data unit having the at least one ~~second~~ first data unit, the at least one ~~third~~ second data unit including ~~header information which contains~~ a plurality of pairs of the transport packets and time information relating to the ~~at least one first data unit~~ paired transport packets.

Claims 28-36 (Canceled).

Claim 37 (Currently Amended): A method of recording bitstream information on an information medium having a data area and a management area, said information medium

comprising a stream object, formed from the bitstream information, including ~~at least one first data unit~~ a plurality of MPEG transport packets, at least one ~~second~~ first data unit having the ~~at least one first data unit~~ transport packets, and at least one ~~third~~ second data unit having the at least one ~~second~~ first data unit, the at least one ~~third~~ second data unit including header information which contains a plurality of pairs of the transport packets and time information relating to the ~~at least one first data unit~~ paired transport packets, said recording method comprising:

recording the bitstream information of the data area; and

recording management information of the bitstream information on the management area.

Claim 38 (Currently Amended): A method of reproducing bitstream information from an information medium having a data area and a management area, said information medium comprising a stream object, formed from the bitstream information, including ~~at least one first data unit~~ a plurality of MPEG transport packets, at least one ~~second~~ first data unit having the ~~at least one first data unit~~ transport packets, and at least one ~~third~~ second data unit having the at least one ~~second~~ first data unit the at least one ~~third~~ second data unit including header information which contains a plurality of pairs of the transport packets and time information relating to the ~~at least one first data unit~~ paired transport packets, said reproducing method comprising:

reproducing management information of the bitstream information from the management area; and

reproducing the bitstream information from the data area.

Claim 39 (Currently Amended): An information medium configured to have data recorded thereon and data reproduced therefrom, said data including management information used to access a stream object for at least one of recording and reproducing the data by at least one of the recording apparatus and the reproducing apparatus and bitstream information, said information medium comprising:

[[a]] the stream object, formed from the bitstream information, including at least one first data unit a plurality of MPEG transport packets, at least one ~~second~~ first data unit having the ~~at least one first data unit~~ transport packets, and at least one ~~third~~ second data unit having the at least one ~~second~~ first data unit, wherein said management information includes information relating to a number of the ~~at least one first data unit~~ transport packets.

Claim 40 (Currently Amended): A method of recording bitstream information on an information medium having a data area and a management area, said information medium comprising a stream object, formed from the bitstream information, including ~~at least one first data unit~~ a plurality of MPEG transport packets, at least one ~~second~~ first data unit having the ~~at least one first data unit~~ transport packets, and at least one ~~third~~ second data unit having the at least one ~~second~~ first data unit, wherein said management information includes information relating to a number of the ~~at least one first data unit~~ transport packets, said recording method comprising:

recording the bitstream information on the data area; and

recording management information of the bitstream information on the management area.

Claim 41 (Currently Amended): A method of reproducing bitstream information from an information medium having a data area and a management area, said information medium comprising a stream object, formed from the bitstream information, including ~~at least one first data unit~~ a plurality of MPEG transport packets, at least one ~~second~~ first data unit having the ~~at least one first data unit~~ transport packets, and at least one ~~third~~ second data unit having the at least one ~~second~~ first data unit, wherein said management information includes information relating to a number of the ~~at least one first data unit~~ transport packets, said reproducing method comprising:

reproducing management information of the bitstream information from the management area; and

reproducing the bitstream information from the data area.

Claims 42-43 (Canceled).